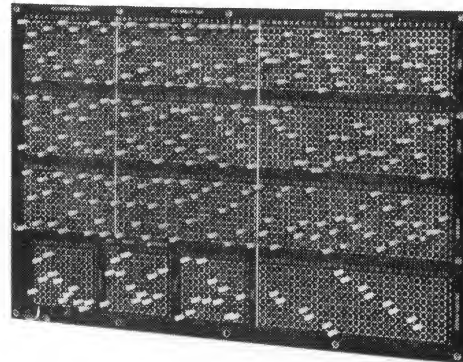
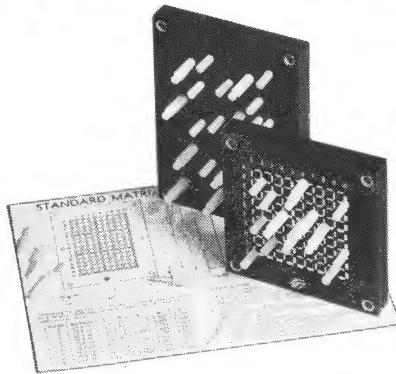


CO-ORD SWITCH

A DIVISION OF LVC INDUSTRIES INC.

102-48 43rd AVE., CORONA, N. Y. 11368 • TEL: 212-899-5588

MATRIX PROGRAM BOARDS



CO-ORD Matrix Program Boards are composed of 2 to 6 decks of contacts that are bussed in parallel rows on .250 centers. The contact rows of one deck are usually oriented perpendicular to the rows of adjacent deck(s) so as to obtain switching crosspoints. Electrical connections of the bussed contact rows are effected by inserting shorting pins at the desired crosspoints; "CO-AX", phone plug type pins are available for networks which require component insertion (Diodes, resistors, etc.). Single board matrices of up to 11,000 crosspoints are available in standard or special arrangements. Bussed and isolated contacts can be had alone or in combination. Panels may be screened, engraved, or fitted with pre-punched templates for rapid program changing.

FEATURES

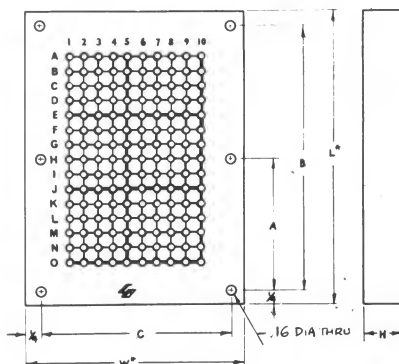
- Closed entry contacts
- High mechanical environment capacity for MIL applications
- Low interlead capacitance (cross-talk) for high frequency applications
- Attractive and uncluttered panel
- Compact package
- Standard sizes available off the shelf
- Permits insertion of components into network without soldering
- Wide variety of switching combinations available using standard hardware

APPLICATIONS

Computer memories
Cordless patch panels
Function generators (Analog/Digital)
Power distributors
Thermocouple signal selectors
Circuit/Component test programmers
Lighting systems (Special effects)
Variable sequence selectors

Variable diode matrices
Code generators
Traffic control panels
Decade switches
Vending machine control
Numeric controlled machinery
Data channeling & logging
Communications distributors

STANDARD MATRIX BOARDS—SERIES 63014



SPECIFICATIONS

- 1-Contact Resistance
a Total Pin Resistance:
.004 OHM MAX.
b Volume Resistivity of
Strip: .003 OHM/IN
- 2-Breakdown Voltage:
1000 VRMS MIN.
- 3-Current Capacity:
5 AMPS Continuous

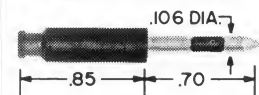
4-Materials

- a Plastic Parts: Black Phenolic XXX
b Flexible Contacts: Heat Treated
Beryl. Copper
c Terminals: Brass
d Finishes: Gold, Silver or Nickel

DASH	MATRIX	L	W	A	B	C
-1	10 X 10	3 1/4	3 1/4	-	3,250	3,250
-2	10 X 15	5	3 1/4	-	4,500	3,250
-3	10 X 20	6 1/4	3 1/4	-	5,750	3,250
-4	10 X 25	7 1/2	3 1/4	3,500	7,000	3,250
-5	15 X 20	6 1/4	5	-	5,750	4,500
-6	15 X 25	7 1/2	5	3,500	7,000	4,500
-7	20 X 20	6 1/4	6 1/4	-	5,750	5,750
-8	50 X 10	13 1/4	3 1/4	1,928	13,250	3,250
-9	25 X 25	7 1/2	7 1/2	3,500	7,000	7,000

H	2-D	3-D	4-D	5-D	6-D
	1/16	3/4	1 1/16	1 1/8	1 1/16

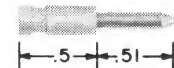
PROGRAM PINS



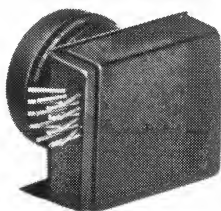
3-D CO-AX



2-D CO-AX



2-D SHORTING PIN
Pins up to 6 deck available

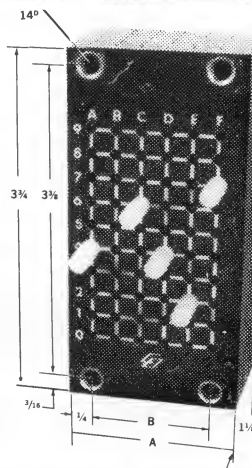


SPECIAL PROGRAMMING DEVICES AND SYSTEMS

In addition to the standard products listed on this page, CO-ORD Switch produces many types of special purpose switching devices to customer specifications. These include: Multi-channel cyclical programmers, Timers, Stepping switches, Selectors, Tape and card readers, Crossbar switches and Scanners.

COMPUTER-CODED OUTPUT SWITCHES

Series 63030 switches offer a wide variety of binary-coded outputs within a compact package. Low contact resistance for dry circuit conditions is a standard feature. The pin is a three-dimensional position indicator which is easiest to read, regardless of the viewing angle. Any number of decades may be built into a single attractive package which may be either front or back mounted. Applications include: EDP systems, Test equipment, Automation systems, GSE equipment and Servo systems.



PIN POS'N	4 BIT WORD BCD CODE			
	1	2	4	8
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				

TERMINALS ARE .040 DIA. PINS — OTHER SPECS PER STANDARD MATRIX. OTHER CODES SUCH AS BCD, 1247, 1125 AND 1224 AVAILABLE ON REQUEST.

FOR MORE DETAILS AND PRICE INFORMATION ON OUR COMPLETE PRODUCT LINE CONTACT US DIRECT OR YOUR LOCAL REP.



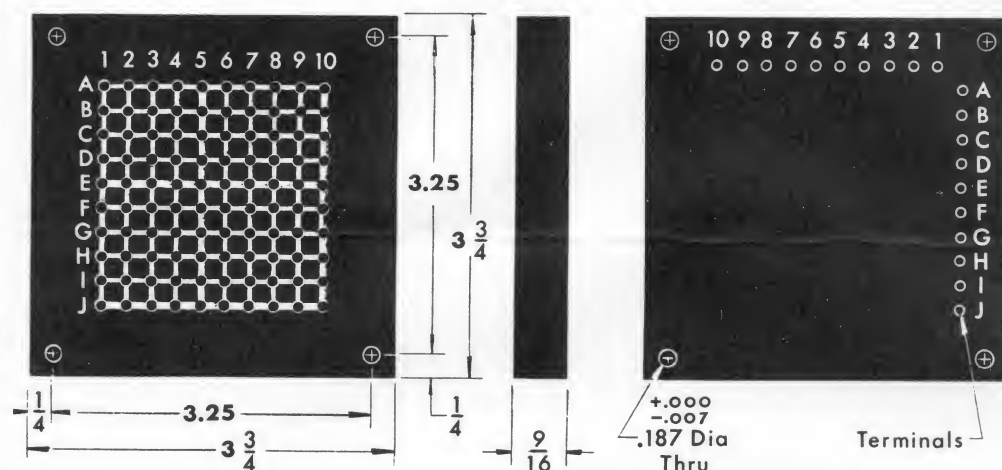
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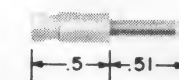
TECHNICAL BULLETIN NO. CO-1466

NOW, the most complete programming kits in the industry for testing and evaluating your prototypes.

MATRIX PROGRAM BOARD #63014-100



PROGRAM PINS



2-D SHORTING PIN

PART #62094-S



2-D CO-AX

Pt. #63009-S . . . without diodes installed

Pt. #63009-26 . . . with IN270 diode installed

U.S. & FOREIGN PATENTS PENDING

The Matrix Program Board is composed of two levels of parallel rows of contact strips retained in black phenolic decks, where strips in one level (INPUT) run perpendicular to the strips in the adjacent level (OUTPUT). A 10 x 10 array of holes in the front panel is aligned with the CO-ORDinate intersection (cross point) of the bussed strips on both decks to form a switching Matrix. The transfer of inputs to outputs is accomplished by inserting a shorting pin into the desired hole location. For increased versatility, CO-ORD provides 2-D CO-AX pins to introduce diodes and other components into the system.

MATRIX BOARDS SPECIFICATIONS

- A. Contact type: Closed entry with full line interface
- B. Contact material and finish: Heat treated Be-Cu .0003 Silver plating
- C. Contact resistance:
 - 1. Interface resistance: .004 ohms max.
 - 2. Volume resistivity: .003 ohms per in. max.
- D. Breakdown voltage: 1000 VRMS min.
- E. Current carrying capacity: 5 amps. continuous
- F. Marking: White epoxy paint on black panel
- G. Termination: Combination size .053 taper pin/solder cup

PIN SPECIFICATIONS

- A. Shorting pin: Silver plated brass pin in plastic handle
- B. CO-AX pin: Silver plated brass pin parts with Teflon insulation; plastic handle.
- C. Diode (similar to 1N270): PIV-100V; Min Fwd I @ 1V 200 ma; Max Rev I @ 25°C 100 ua @ 50V; Orientation: Anode to tip (2nd deck) of pin
- D. Max component size: .375 lg., .160 dia., .025 dia. lead

ORDERING INFORMATION

KITS

BPS-1 consists of one (1) #63014-100, ten (10) #62094-S, and ten (10) #63009-26 \$27.00

BPS-2 consists of one (1) #63014-100, ten (10) #62094-S, and ten (10) #63009-S \$22.25

COMPONENTS

63014-100.	\$17.00 ea.	63009-S.	\$.51 ea.
62094-S.	\$.12 ea.	63009-26.	\$.99 ea.

Terms. . . . F.O.B. Corona, N.Y.

PLACE YOUR ORDER TODAY -- WE WILL SHIP WITHIN 24 HOURS!!

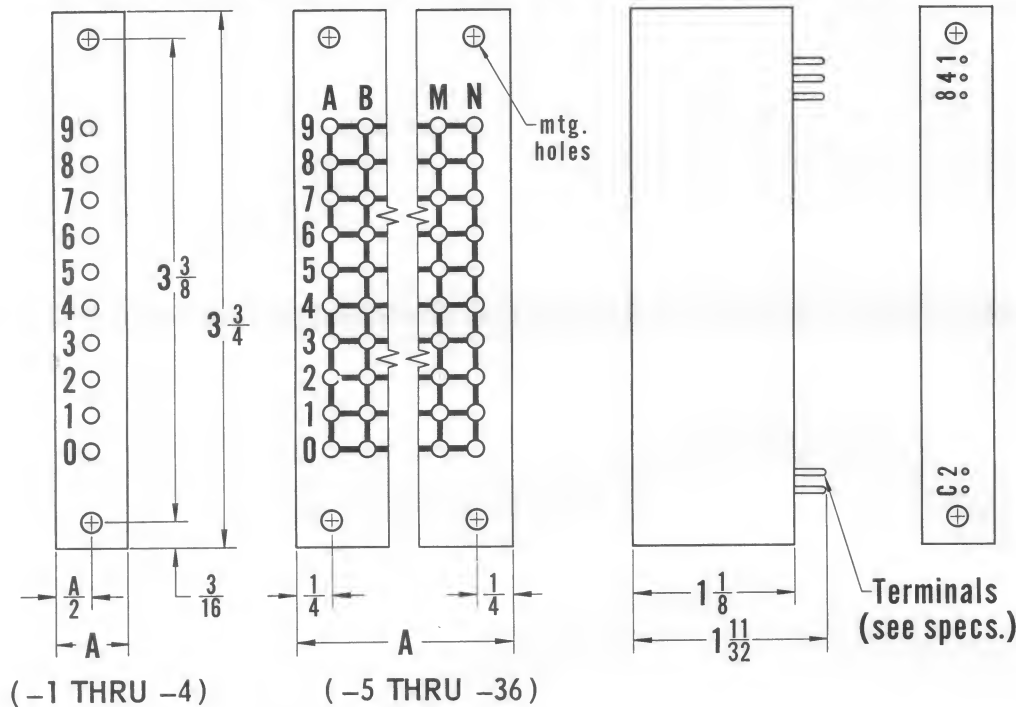


COORD SWITCH

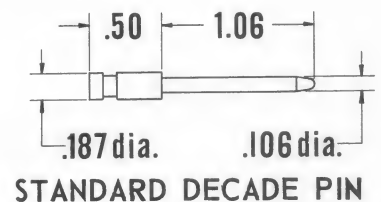
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TECHNICAL BULLETIN NO. CO-1465

COMPUTER CODED OUTPUT SWITCHES-Series 63030



BCD, 10 POSITION				
PIN POS.	SIGNAL TERMINALS			
	1	2	4	8
0				
1	X			
2		X		
3	X	X		
4			X	
5	X		X	
6		X		
7	X		X	
8				X
9	X			X



DASH NO. = NO. OF DECADES = N; $A = \frac{1}{4}(N+1)$

EXAMPLE: 7 DECADES REQ'D → ORDER PART NO. 63030-7-1248

"A" DIMENSION = $\frac{1}{4}(7) + \frac{1}{4} = 2"$

FEATURES:

- Easy to use—insertion of a pin into desired digital position converts to coded electrical output (see truth table).
- Positive positioning—no "hang-up" between digits.
- Lower cost—prices start at \$5 per decade.
- Smallest size: i.e. -5 decade unit—.312 wide/decade.
- Easiest to read from any angle—pin is a 3-dimensional position indicator.
- Closed-entry FULL LINE contacts assures better electrical continuity.
- Compact package up to 36 decades with a variety of codes.
- Front and Rear mounting is standard.

SPECIFICATIONS:

- Total Pin Resistance: .004 ohm max.
- Volume Resistivity of contact strip: .003 ohm/in.
- Breakdown Voltage: 1000 V.A.C. @ 60 cps rms min.
1750 VDC rms min.
- Current Capacity: 5 amps. continuous.
- Terminals are .040 dia. pin.
- Materials: Plastic parts—xxx Black Phenolic;
Contacts—BeCu; Terminals—Brass.

OPTIONS:

- Other Codes such as BCO, 1247, 1125, 1224 and 1242 are available on request.
- Units may be supplied with GLOSS or MATTE finish on front panel.
- Finishes available (contacts and pins): .0003 Silver over Copper flash (std.); .0003 Nickel over Copper flash; .0003 Gold over .0002 Silver; .0001 Gold over .0001 Copper.
- Plain or Marked Front Panels.
- Color—coded Decade Pin handles.

APPLICATIONS:

These "BCD" units offer a wide range of capabilities as follows:

- Voltage dividers
- Resistance decades
- Capacitance decades
- Decimal to Binary conversion, etc., and are utilized in
- EDP systems
- Test equipment
- Automation systems
- GSE equipment
- Servo systems.